EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER PUBLICATION DATE

2000221544 11-08-00

APPLICATION DATE APPLICATION NUMBER

26-01-00 2000016546

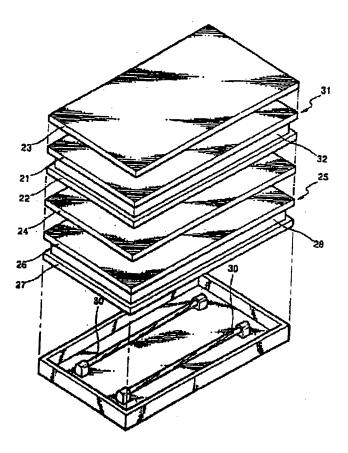
APPLICANT: SAMSUNG SDI CO LTD;

INVENTOR: KYO KAICHIN;

INT.CL. G02F 1/139 G09F 9/00 G09F 9/30

. TITLE

LIQUID CRYSTAL DISPLAY DEVICE



ABSTRACT :

PROBLEM TO BE SOLVED: To provide a liquid crystal display device capable of enhancing the efficiency of use of light.

SOLUTION: This liquid crystal display device is provided with a liquid crystal display part 31 consisting of a front substrate and a back substrate having electrodes in a specified shape formed on the inner faces facing each other and a liquid crystal which fills the space between the substrates, and a front polarizing plate 23 and a back polarizing plate disposed on the front side and the back side of the liquid crystal display part, respectively, and a back light source 30 disposed on the back side of the back polarizing plate 24, and a liquid crystal reflection part 25 disposed between the back polarizing plate 24 and the back light source 30 and consisting of a front substrate 26 and a back substrate 27 having electrodes on the inner faces facing each other and a cholesteric liquid crystal which fills the space between the front substrate 26 and the back substrate 27.

COPYRIGHT: (C)2000,JPO

```
IS&R 55
              (349/102).CCLS.
                                 USPAT; US-PGPUB; EPO; JPO; DERWENT;
 IBM TDB
              2002/09/13 12:42
 IS&R 40
              (349/101).CCLS.
                                 USPAT; US-PGPUB; EPO; JPO; DERWENT;
 IBM TDB
              2002/09/13 12:42
 IS&R 1010
              ((349/113) or (349/114) or (349/115)). CCLS.
 EPO; JPO; DERWENT; IBM_TDB 2002/09/18 09:43
                                                          USPAT; US-PGPUB;
 BRS 0
             (((349/113) or (349/114) or (349/115)). CCLS.) and ((tunable adj5 mirror)
 (controllable adj5 mirror) rem (reversible adj5 mirror))
                                                   USPAT, US-PGPUB, EPO,
 JPO; DERWENT; IBM_TDB
                                2002/09/18 09:45
 IS&R 68
             (349/115).CCLS.
                                USPAT; US-PGPUB; EPO; JPO; DERWENT;
 IBM TDB
             2002/09/18 10:09
 IS&R 71
             (349/77).CCLS.
                                USPAT; US-PGPUB; EPO; JPO; DERWENT;
IBM TDB
             2002/09/18 10:17
IS&R 462
             (349/74).CCLS.
                                USPAT; US-PGPUB; EPO; JPO; DERWENT;
IBM TDB
             2002/09/18 10:17
IS&R 0
             ("5 not (43)").PN.
                               USPAT; US-PGPUB; EPO; JPO; DERWENT;
IBM TDB
             2002/09/18 10:18
BRS
            ((349/74).CCLS.) not (((349/77).CCLS.) ((349/115).CCLS.))
      442
      USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB 2002/09/18 10:30
BRS
            (((349/113) or (349/114) or (349/115)).CCLS.) not (((349/115).CCLS.)
((349/77).CCLS.) (((349/74).CCLS.) not (((349/77).CCLS.) ((349/115).CCLS.))))
      USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB 2002/09/18 11:06
```